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(54) Title: MURD PROTEIN AND GENE OF *PSEUDOMONAS AERUGINOSA*

(57) Abstract

This invention provides isolated polynucleotides that encode the MurD protein of *Pseudomonas aeruginosa*. Purified and isolated MurD recombinant proteins are also provided. Nucleic acid sequences which encode functionally active MurD proteins are described. Antisense and inhibitors of the activity of MurD are also provided.